## WHAT IS CLAIMED IS:

1. An overload protector coupled to an electric motor comprising:
a thermally activated switching device for selectively providing current
to a mains circuit of the electric motor, said switching device including a first heater
element;

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a second heater element thermally coupled to said switching device; and a control circuit connected to and activating said second heater element.

- 2. The overload protector of Claim 1 in which said switching device comprises a bimetallic element.
- 3. The overload protector of Claim 1 in which said control circuit is remotely located relative to said motor.
- 4. The overload protector of Claim 1 further comprising a second heater element thermally coupled to and electrically connected in series with said switching device.
  - A hermetic compressor comprising:
     a hermetically sealed housing;
     an electric motor disposed in said housing and having a stator and rotor;
     a compressor unit disposed in said housing and driven by said motor;

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an overload protector comprising:

a thermally activated switching device for selectively providing current to said electric motor, said switching device including a first heater element; a second heater element thermally coupled to said switching device; and

device, and

a control circuit connected to and activating said second heater element.

- 6. The hermetic compressor of Claim 5 in which said electric motor is a single phase electric motor.
- 7. The hermetic compressor of Claim 5 in which said electric motor is a three phase electric motor.

- 8. The hermetic compressor of Claim 5 in which said electric motor is a permanent split capacitor motor.
- 9. The hermetic compressor of Claim 5 in which said electric motor is a repulsion-start, induction-run motor.
- 10. The hermetic compressor of Claim 5 wherein said control circuit is disposed externally of said housing.
- 11. The hermetic compressor of Claim 5 wherein said overload protector includes a second heater element thermally coupled to and electrically connected in series with said switching device.
- 12. A hermetic compressor comprising:
  a hermetically sealed housing;
  an electric motor disposed in said housing and having a plurality of windings;

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a compressor unit disposed in said housing and driven by said motor;
a contactor module electrically connected to said electric motor and
having a thermally activated switching device for selectively providing current to said
electric motor and at least one heater element thermally coupled to said switching
device; and

a control assembly electrically connected to said contactor module and having a heater element control circuit for activating said heater element.

- 13. The hermetic compressor of Claim 12 wherein said contactor module includes a relay for controlling said heater element and said heater element control circuit includes a relay controller for operating said relay.
- 14. The hermetic compressor of Claim 12 wherein said contactor module includes current sensors and said control assembly includes a current sensor circuit for determining current to said electric motor.
- 15. The hermetic compressor of Claim 12 further comprising a oil sensor, said control assembly including a low oil sensor circuit electrically connected to said oil sensor for determining a low oil condition.
- 16. The hermetic compressor of Claim 12 wherein said control assembly includes a microprocessor.

- 17. The hermetic compressor of Claim 12 wherein said control assembly includes an input/output interface circuit for transmitting information from and receiving information to said control assembly.
- 18. The hermetic compressor of Claim 12 wherein said control assembly is remotely located.
- 19. The hermetic compressor of Claim 12 wherein said contactor module includes at least one inductive pickup and said control assembly includes a winding sensor circuit electrically connected to said inductive pickup for determining the condition of said windings.